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**AUTOMATIC SENSITIVITY CONTROL AND METHOD FOR USE  
IN AN IMPLANTABLE CARDIAC STIMULATION DEVICE**

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**Abstract of the Disclosure**

A threshold sensing control for use in an implantable cardiac stimulation device controls the sensing of cardiac activity during a current cardiac cycle of a heart while avoiding sensing a T wave. The system includes a sensing circuit that senses cardiac activity of the heart during a cardiac cycle preceding the current cardiac cycle, a detector that measures selected T wave and R wave characteristics of the cardiac activity and a control circuit that varies the sensing threshold based upon the measured selected R wave and T wave characteristics. The sensing threshold control may be implemented for both intrinsic and paced beats.